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(54) Power installation tool for helical coil inserts

(57) A tool for installing a helical coil insert in a tapped hole formed in a workpiece includes a tubular body having a bore extending along its axis, a mandrel coaxially disposed in the bore of the tubular body, a punch coaxially disposed in a bore of the mandrel, a motor for rotating the mandrel, and an air cylinder for applying an axial force to the punch. The tubular body includes a recess at one end for carrying a helical coil in-

sert in alignment with the bore. An opening in the tubular body allows a user access to the recess. The mandrel is movable from a position retracted from the helical coil insert, to a position engaging the helical coil insert, and to a position installing the helical coil insert a selected depth in the tapped hole of the workpiece. The punch slides axially in the bore of the mandrel to remove the tang from the helical coil insert upon installation of the helical coil insert in the tapped hole.

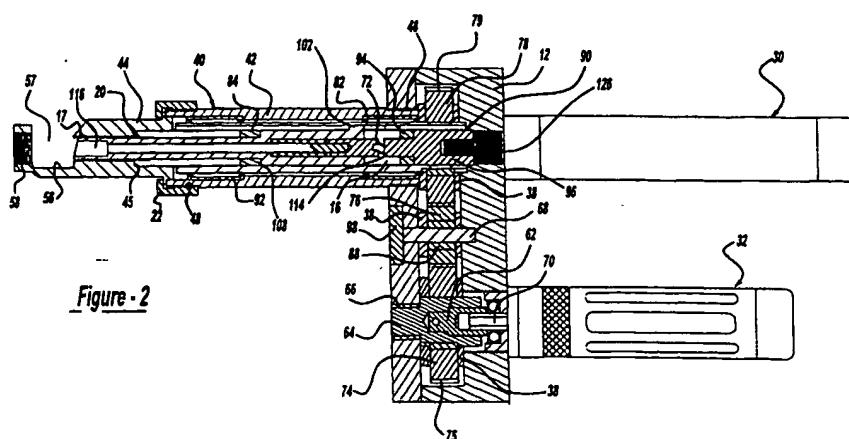


Figure - 2



**European Patent
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EUROPEAN SEARCH REPORT

Application Number

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
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			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			B25B B23P
The present search report has been drawn up for all claims			
Place of search	Date of completion of the search	Examiner	
MUNICH	25 January 2002	Kühn, T	
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone	T : theory or principle underlying the invention		
Y : particularly relevant if combined with another document of the same category	E : earlier patent document, but published on, or after the filing date		
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P : intermediate document	& : member of the same patent family, corresponding document		

**ANNEX TO THE EUROPEAN SEARCH REPORT
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
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25-01-2002

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